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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Sharp et al.

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For:

AIR QUALITY MONITORING SYSTEMS AND METHODS

Examiner:

Not Yet Assigned

Art Unit:

2856

Attn: Official Draftsperson

COMMISSIONER FOR PATENTS

WASHINGTON, DC 20231

Sir:

## LETTER TO OFFICIAL DRAFTSPERSON

Applicants submit herewith formal drawings (10 sheets for FIGS. 1-8B) to replace the informal drawings filed in the above-identified patent application. Figures 1, 7 and 8 have been relabeled as Fig. 1A and 1B, Fig. 7A and 7B and Fig. 8A and 8B, respectively. Each of these figures now has been separated onto two sheets, so that the drawings are more clearly understood as they are not crowded onto one sheet. Also, missing reference numerals were added to Fig. 1A and 1B, Fig. 7A and 7B and Fig. 8A and 8B in conformance with the specification.

If the formal drawings are found to be deficient in any way, the Official Draftsperson is invited to contact the undersigned by telephone so that Applicants can accomplish any further changes that the draftsperson might require.

Please charge any fee or fee deficiency occasioned by this response to Deposit Account No. 23/2825.

Respectfully submitted,

Sharp et al., Applicant(s)

By:

Kristin D. Wheeler, Reg. No. 43,583

WOLF, GREENFIELD & SACKS, P.C.

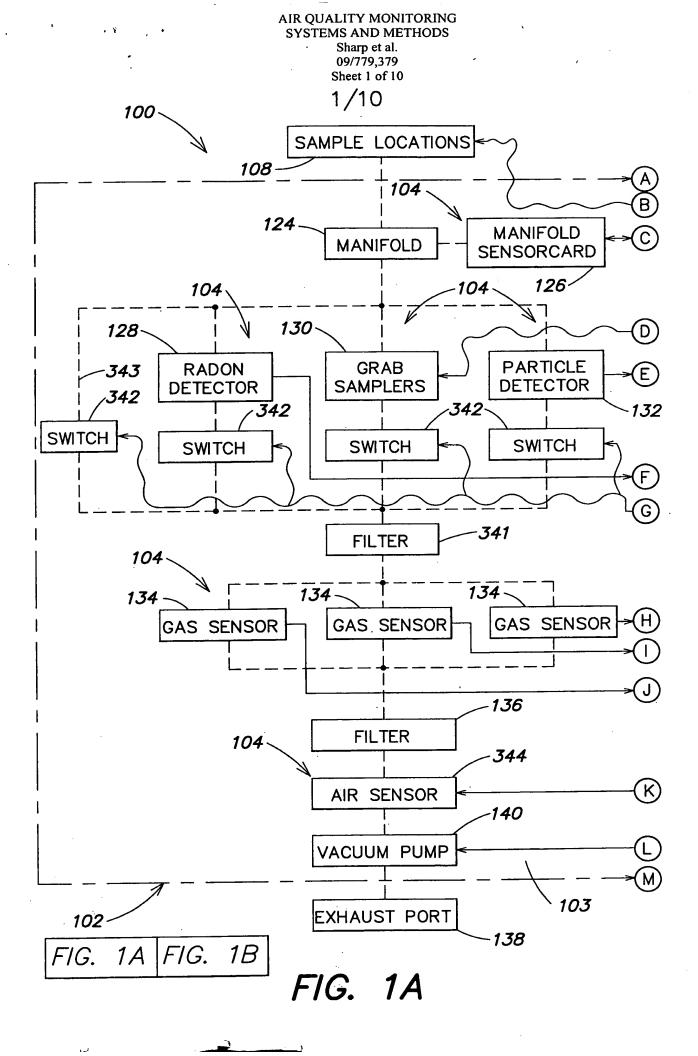
Federal Reserve Plaza 600 Atlantic Avenue

Boston, Massachusetts 02210

Telephone: (617) 720-3500

Date: May 22, 2002

xNDD



Sharp et al. 09/779,379 Sheet 2 of 10 2/10 176 106 **GPS** 171 **TBU** CENTRAL COMPUTER **AND** LOCAL CONTROLLER DISPLAY 162 170 COMMUNICATIONS CONTROL AND SENSOR INTERFACE 168 **INTERFACE** CARD USER'S COMPUTER COMMUNICATIONS AND **MEDIA** WEB BROWSER 180 184 -INTERNET 178 -182 REMOTE WEB **SERVERS EXPERT SYSTEM** 174 122 186 DATA CENTER M` DATABASE 166-WEBSITE PROGRAMS & *172* · PAGE GENERATION

AIR QUALITY MONITORING SYSTEMS AND METHODS

FIG. 1B

AIR QUALITY MONITORING SYSTEMS AND METHODS Sharp et al. 09/779,379 Sheet 3 of 10 3/10 CENTRAL COMPUTER AND CONTROLLER SENSOR NETWORK INTERFACE CONTROL FIG. 2 SENSOR UNIT 3 SENSOR UNIT 1 SENSOR UNIT 2 SAMPLE LOCATION SAMPLE LOCATION SAMPLE LOCATION

108

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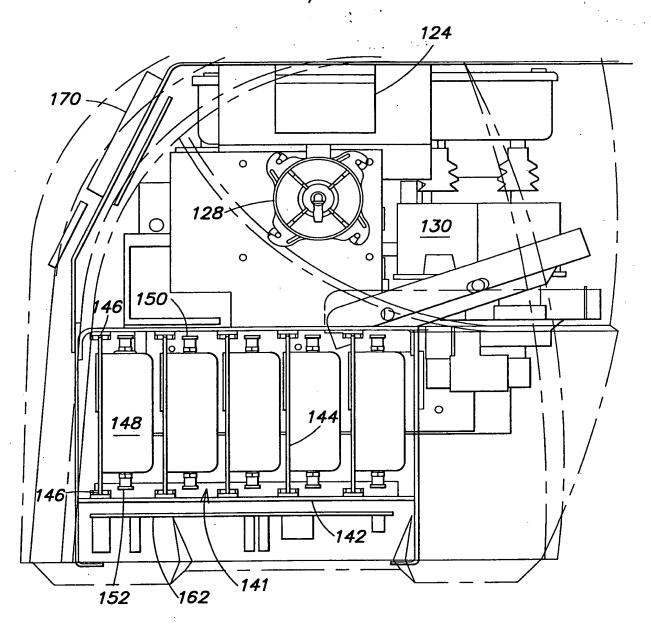


FIG. 3

## AIR QUALITY MONITORING SYSTEMS AND METHODS Sharp et al. 09/779,379 Sheet 5 of 10

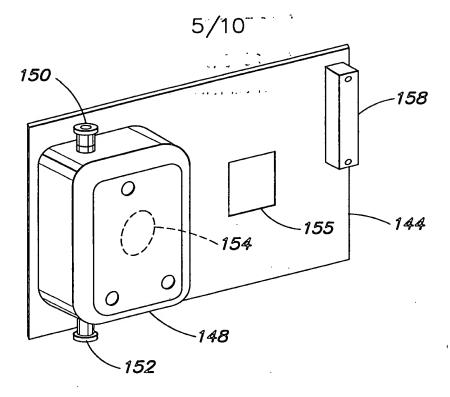


FIG. 4

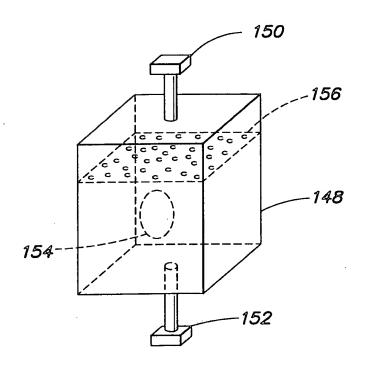


FIG. 5

AIR QUALITY MONITORING SYSTEMS AND METHODS Sharp et al. 09/779,379 Sheet 6 of 10 6/10 BASED ON SYMPTOMS AND BUILDING CHARACTERISTICS SYMPTOMS A PRELIMINARY DIAGNOSIS INTEGRATED DIAGNOSIS ANALYZED FOR ISSUES DATA SUGGESTS LOOKED AUTOMATICALLY SENSOR DATA REPORTS TO BE USER ISSUES USER 202 200 196. 198 CUSTOMIZED REPORTS 203 208 RECOMMENDATIONS RECOMMENDATION FEEDBACK ABOUT **DIAGNOSIS AND** F/G. 6 USER ENTERS UPDATED 206~ 204, 209-210 LOOKED AT SUGGESTS BASED ON SENSOR DATA PRELIMINARY DIAGNOSIS INTEGRATED DIAGNOSIS USER ENTERS DATA ABOUT OCCUPANTS RECOMMENDS TEST EXPERT SYSTEM CONFIGURATION BUILDING

SENSOR DATA ISSUES TO BE

AND

USER ORDERS SYSTEM

REACTIVE

192.

186

ON WEB SITE

194

USER RECORD

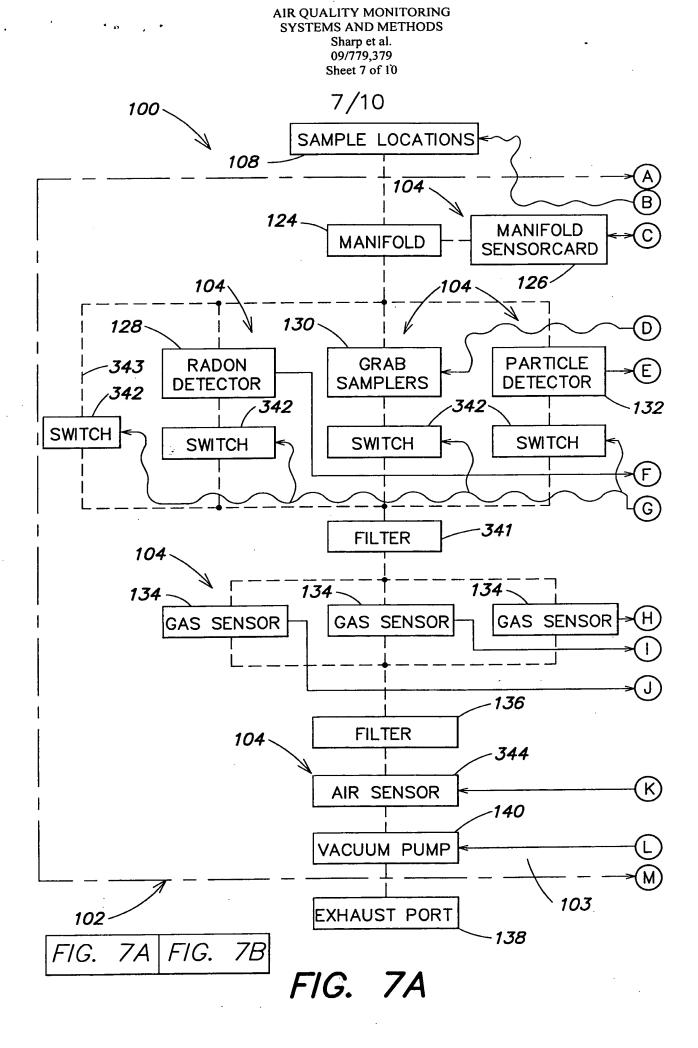
SCORECARD MA

USER ORDERS SYSTEM

**PROACTIVE** 

188<sub>.</sub>

ON WEB SITE



AIR QUALITY MONITORING SYSTEMS AND METHODS Sharp et al. 09/779,379 Sheet 8 of 10

8/10

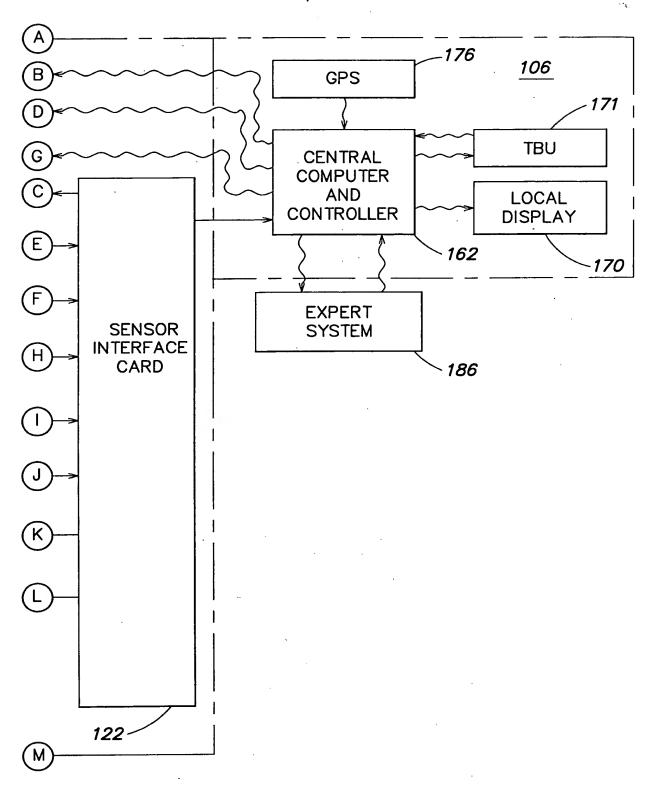


FIG. 7B

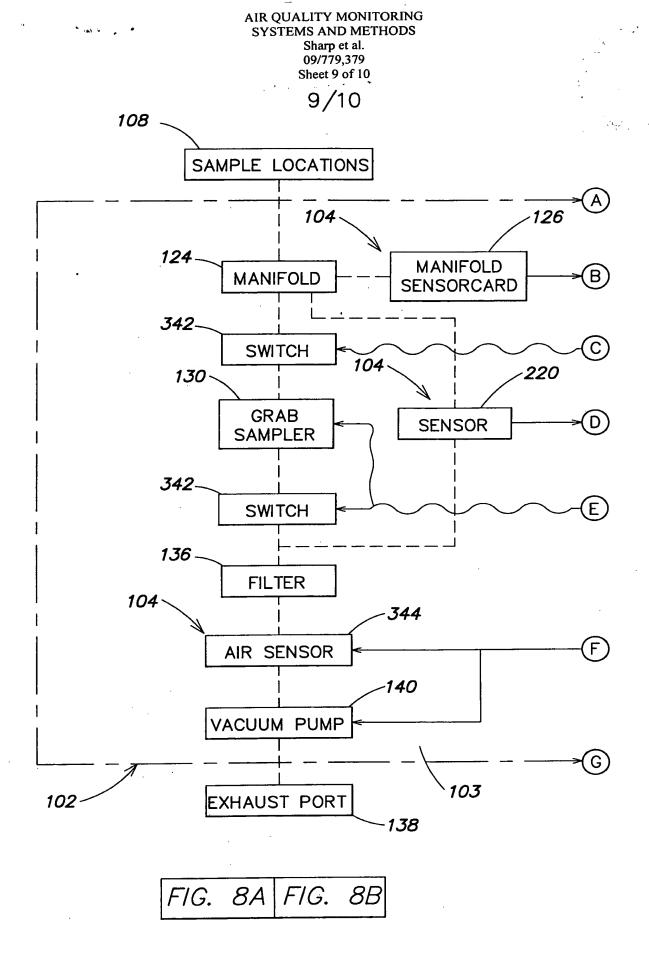


FIG. 8A

